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APPLICATION NO.	ı	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,694 09/17/2003		09/17/2003	Howard E. Rhodes	M4065.0747/P747 3975	
24998	7590	08/11/2004	EXAMINER		
DICKSTE 2101 L STI		PIRO MORIN &	GARCIA, JOANNIE A		
		20037-1526		ART UNIT	PAPER NUMBER
			2823		
			DATE MAILED: 08/11/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	Application No. Applicant(s)		·			
		10/663,69	94	RHODES, HOWARD E.				
	Office Action Summary	Examiner		Art Unit				
		Joannie A		2823				
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the o	correspondence ad	ldress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no evo b. a reply within the stat briod will apply and w tatute, cause the app	ent, however, may a reply be tilutory minimum of thirty (30) day II expire SIX (6) MONTHS from lication to become ABANDONE	mely filed ys will be considered timel the mailing date of this co				
Status								
1)	Responsive to communication(s) filed on _							
2a) <u></u> ☐	<u> </u>							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-83</u> is/are pending in the application. 4a) Of the above claim(s) <u>67-83</u> is/are withdrawn from consideration. Claim(s) <u>25-30,32-34,36-46 and 48-51</u> is/are allowed. Claim(s) <u>1,2,4,5,7-9,11-16,19,20 and 22-24</u> is/are rejected. Claim(s) <u>3,6,10,17,18,21,31,35,47 and 52-66</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)	The specification is objected to by the Exam	niner.						
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to	the drawing(s) b	e held in abeyance. Se	e 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the			-	• •			
	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail D					
3) 🛛 Infor	e of Draftsperson's Patent Drawing Review (P10-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date 20040807.			Patent Application (PTC	O-152)			

Art Unit: 2823

Applicant's election without traverse of claims 1-66, Group I, in the reply filed on 05-28-04 is acknowledged.

Claims 12, 21, 24, 31, 35, 47, and 52-66, are objected to because of the following informalities:

In claims 12, 31, and 47, line 2, "as a mask" should be preceded by --used--.

Claim 21 recites the limitation "masked spacer etch" in line 1. There is insufficient antecedent basis for this limitation in the claim.

In claim 52, line 10, "said gate structure" should be preceded by --of--.

Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1, 2, 4, 5, 7-9, 11-16, 19, 20, and 24, are rejected under 35 U.S.C. 102(b) as being anticipated by Chiang et al (U.S. Patent 6,306,678).

Chiang et al discloses a method of producing a reset gate CMOS imaging device comprising forming a photosensitive region 20 such as a photodiode (Abstract, Figure 1B, Column 2, lines 61-63, and Column 3, lines 56-57), wherein the imaging device has periphery circuits (Column 1, lines 51-56, Column 3, lines 39-44), forming an N- active area diffusion region 5 (Figure 1B, and Column 3, lines 31-38), forming a gate structure 4/3 (Figure 1B),

wherein the gate structure comprises a gate oxide 3 and a polysilicon gate conductor 4 (Figure 1B, and Column 3, lines 12-15), forming an oxide insulating layer 8a over the photosensitive region, the gate structure and the diffusion region (Figure 3, and Column 4, line 19), removing a first portion of the insulating layer over the diffusion region, leaving a spacer 8c at a side of the gate structure and leaving a second portion of the insulating layer over the photosensitive region (Figure 4), wherein the first portion of the insulating layer is removed from over an N- active area (Figure 4, and Column 3, lines 31-38), and wherein the spacer is left on at least one side of at least one gate structure (Figure 4), and wherein the spacer is formed by a masked spacer etch (Figure 4, and Column 4, lines 19-30), and implanting n-type dopant with the spacer used as a mask (Figure 5).

Claims 22 and 23, are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiang et al as applied to claims 1, 2, 4, 5, 7-9, 11-16, 19, 20, and 24 above, and further in view of the following comments.

With respect to claims 22, and 23, it would have been a matter of routine optimization within the teachings of Chiang et al to determine a suitable thickness to achieve the insulating layer 8a formation step.

Notwithstanding, it would have been an obvious matter of design choice bounded by well known manufacturing constraints and ascertainable by routine experimentation and optimization to choose these particular dimensions because applicant has not disclosed that the dimensions are for a particular unobvious purpose, produce an unexpected result, or are otherwise critical, and it appears prima facie that the process would possess utility using another dimension. Indeed, it

Page 4

has been held that mere dimensional limitations are prima facie obvious absent a disclosure that the limitations are for a particular unobvious purpose, produce an unexpected result, or are otherwise critical. See, for example, In re Rose, 220 F.2d 459, 105 USPO 237 (CCPA 1955); In re Rinehart, 531 F.2d 1048, 189 USPQ 143 (CCPA 1976); Gardner v. TEC Systems, Inc., 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied, 469 U.S. 830, 225 USPQ 232 (1984); In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

Claims 3, 6, 10, 17, and 18, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 21, 31, 35, 47, and 53-66, would be allowable if rewritten to overcome the objection(s) set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claim 52 would be allowable if rewritten or amended to overcome the objection(s) set forth in this Office action.

Claims 25-30, 32-34, 36-46, and 48-51, are allowed.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956 until 2/4/04. See MPEP 203.08.

Art Unit: 2823

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Joannie Adelle García whose telephone number is (571) 272-1861. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax number for this group is 703-872-9306 for before final submissions, 703-872-9306 for after final submissions and the customer service number for group 2800 is (703) 872-9317. Updates can be found at http://www.uspto.gov/web/info/2800.htm.

George Fourson
Primary Examiner
Art Unit 2823

August 7, 2004

George Fourson Primary Examiner Art Unit 2823 (571) 272-1860